IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Mark C. Fishman et al.

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Title:

Methods for Diagnosing and Treating Heart Disease

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

DECLARATION OF MARK C. FISHMAN, M.D., AND XIAOLEI XU, PH.D. UNDER 37 C.F.R. § 1.131

We declare:

- 1. We are the inventors of the subject matter that is described and claimed in the abovecaptioned patent application.
- 2. The enclosed Exhibit is a copy of laboratory notebook pages, which show that we determined that the pickwick mutation, which is characterized by a weak heartbeat, is in the titin gene. In particular, we found that certain zebrafish sequences that we had identified as being in the pickwick locus were homologous to known titin sequences. These pages are dated prior to the August, 1999 publication date of Satoh et al. (Biochem. Biophys. Res. Com. 262:411-417, 1999). This work was carried out in the United States of America.

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	3. Compare human , mouse (chick / titin sequence lesign
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